

COMPACT DISC PLAYER

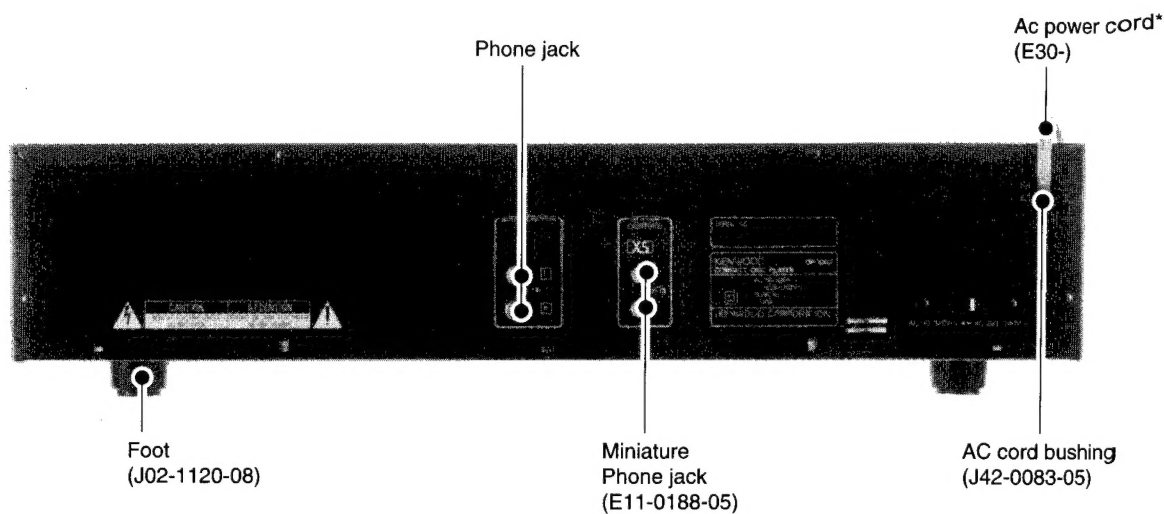
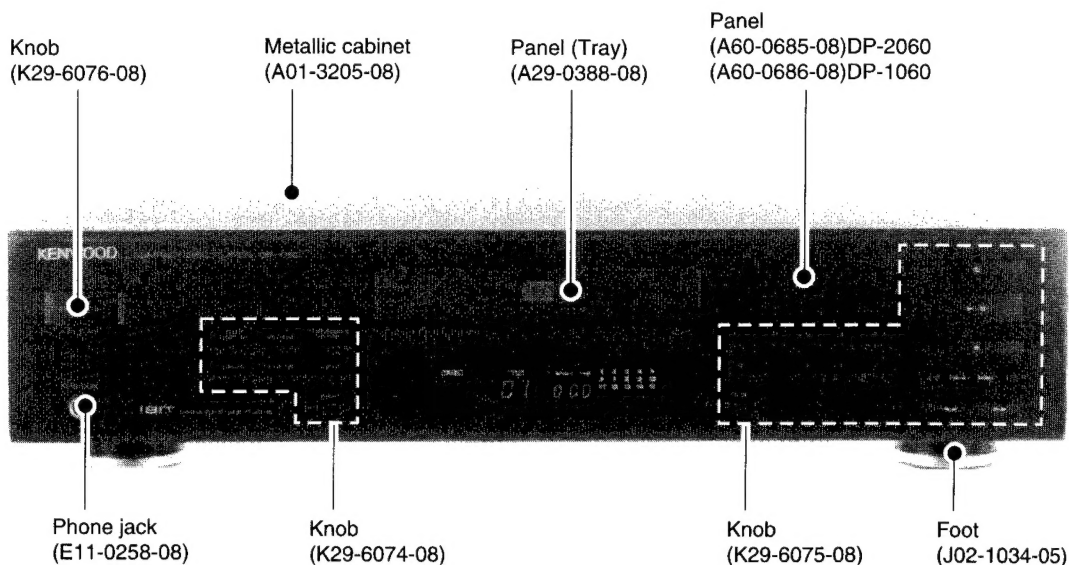
# DP-1060/2060

## SERVICE MANUAL

# KENWOOD

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B51-4978-00 (K) 3880



In compliance with Federal Regulations, following are reproductions of labels on, or inside the product relating to laser product safety.

KENWOOD -Corp. certifies this equipment conforms to DHHS Regulations No. 21 CFR 1040. 10, Chapter 1, Subchapter J.

**DANGER : Laser radiation when open and interlock defeated. AVOID DIRECT EXPOSURE TO BEAM**

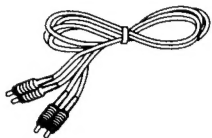
Photo is DP-1060

External view of DP-2060 is same as DP-1060

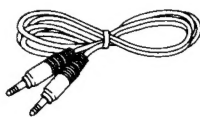
## ACCESSORIES/CAUTIONS

### Accessories

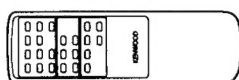
- Audio cord ..... 1  
(E30-0505-05)



- System control cord ..... 1  
(E30-2733-05)

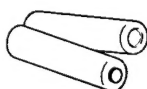


- Remote control unit ..... 1  
(DP-2060 only)  
(A70-0983-05)



Battery cover  
(A09-0170-08)

- Batteries (R6/AA) ..... 2  
(DP-2060 only)

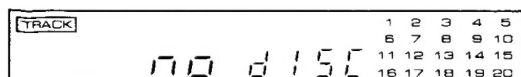


### Cautions

#### Note related to transportation and movement

Before transporting or moving the CD PLAYER, carry out the following operations.

1. Turn the power ON but do not load a disc.
2. Wait a few seconds and verify that the display shown appears.
3. Turn the power OFF.



#### Beware of condensation

When water vapor comes into contact with the surface of cold material, water drops are produced.

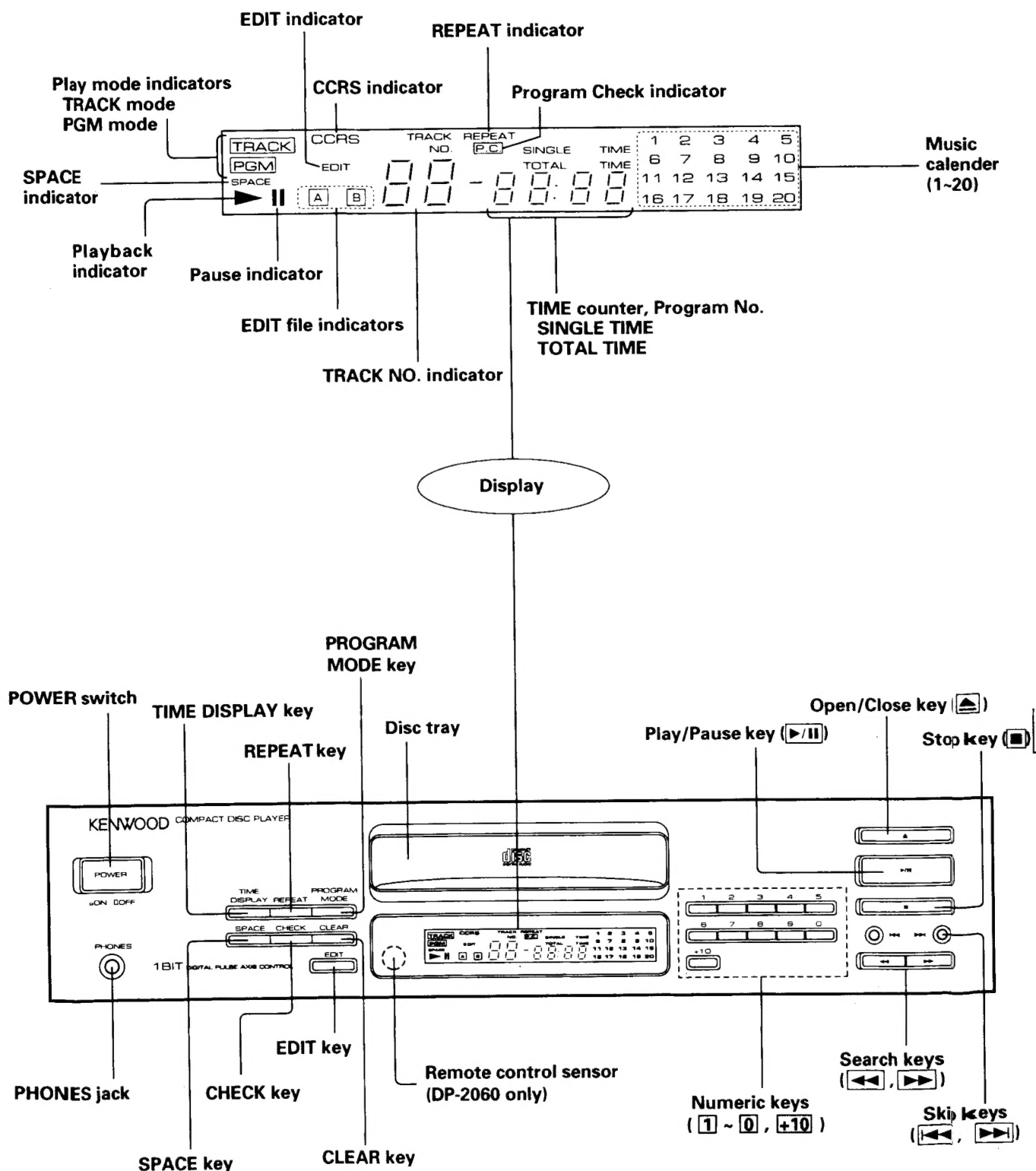
If condensation occurs, correct operation may not be possible, or the unit may not function correctly.

This is not a malfunction, however, the unit should be dried. (To do this, turn the POWER switch ON and leave the unit as it is for several hours.)

Be especially careful in the following conditions:

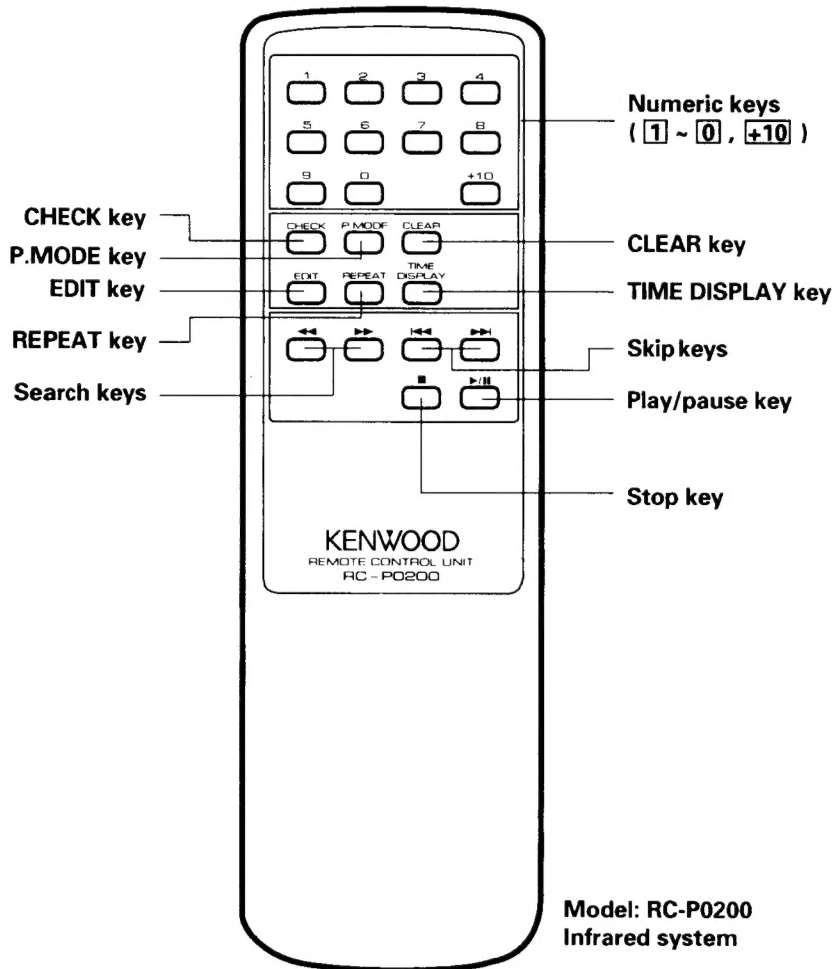
- When the unit is brought from a cold place to a warm place, and there is a large temperature difference.
- When a heater starts operating.
- When the unit is brought from an air-conditioned place to a place of high temperature with high humidity.
- When there is a large difference between the internal temperature of the unit and the ambient temperature, or in conditions where condensation occurs easily.

## CONTROL



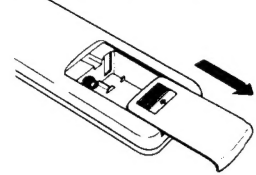
## REMOTE CONTROL

The operations of each are the same as those of the keys in the unit.

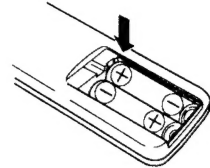


### ■ Loading batteries

#### 1 Remove the cover.

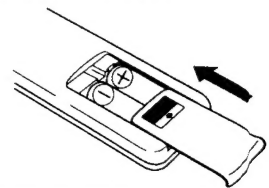


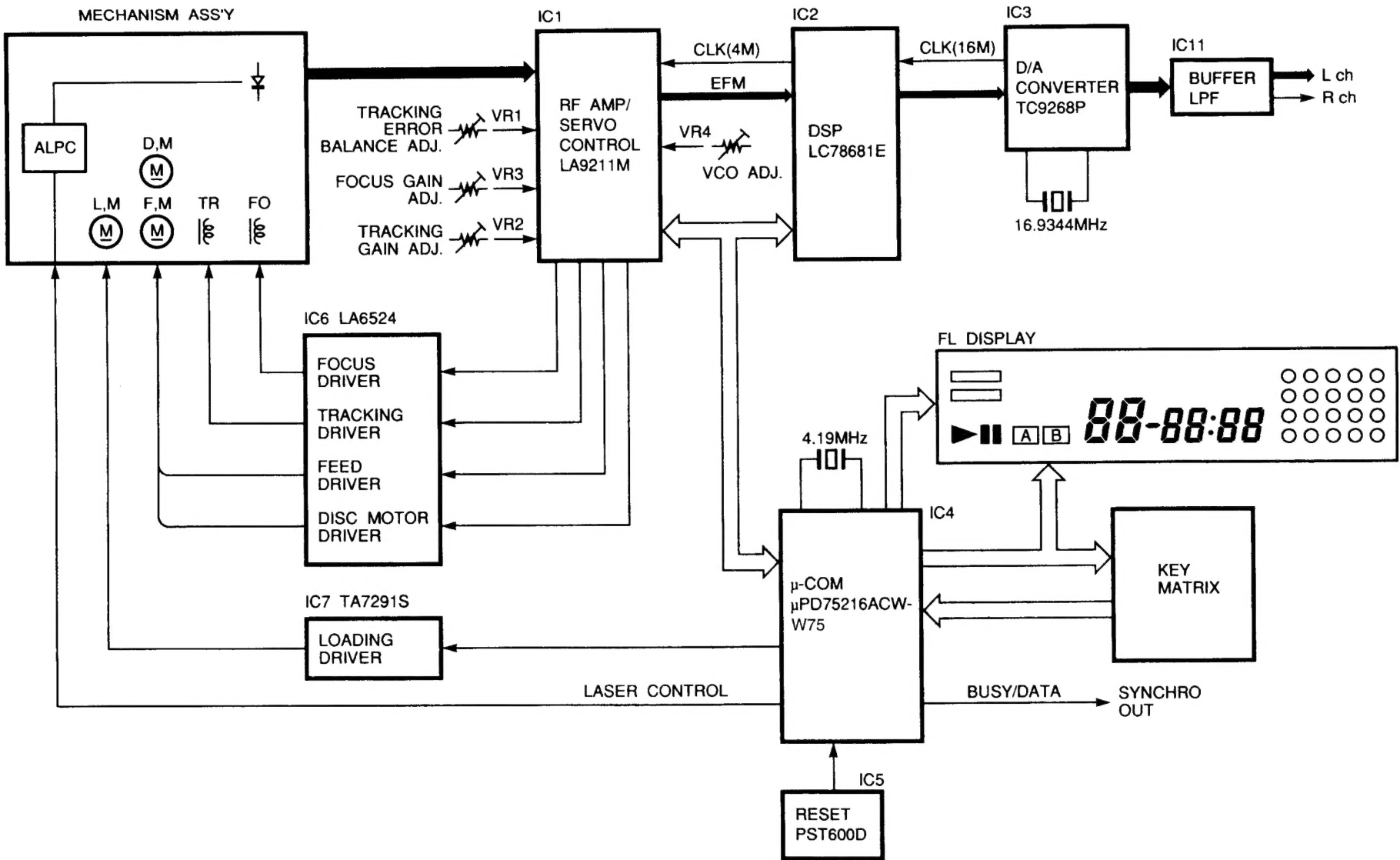
#### 2 Insert batteries.



Insert two batteries (R6/AA) as indicated by the polarity marking.

#### 3 Close the cover.





**BLOCK DIAGRAM**

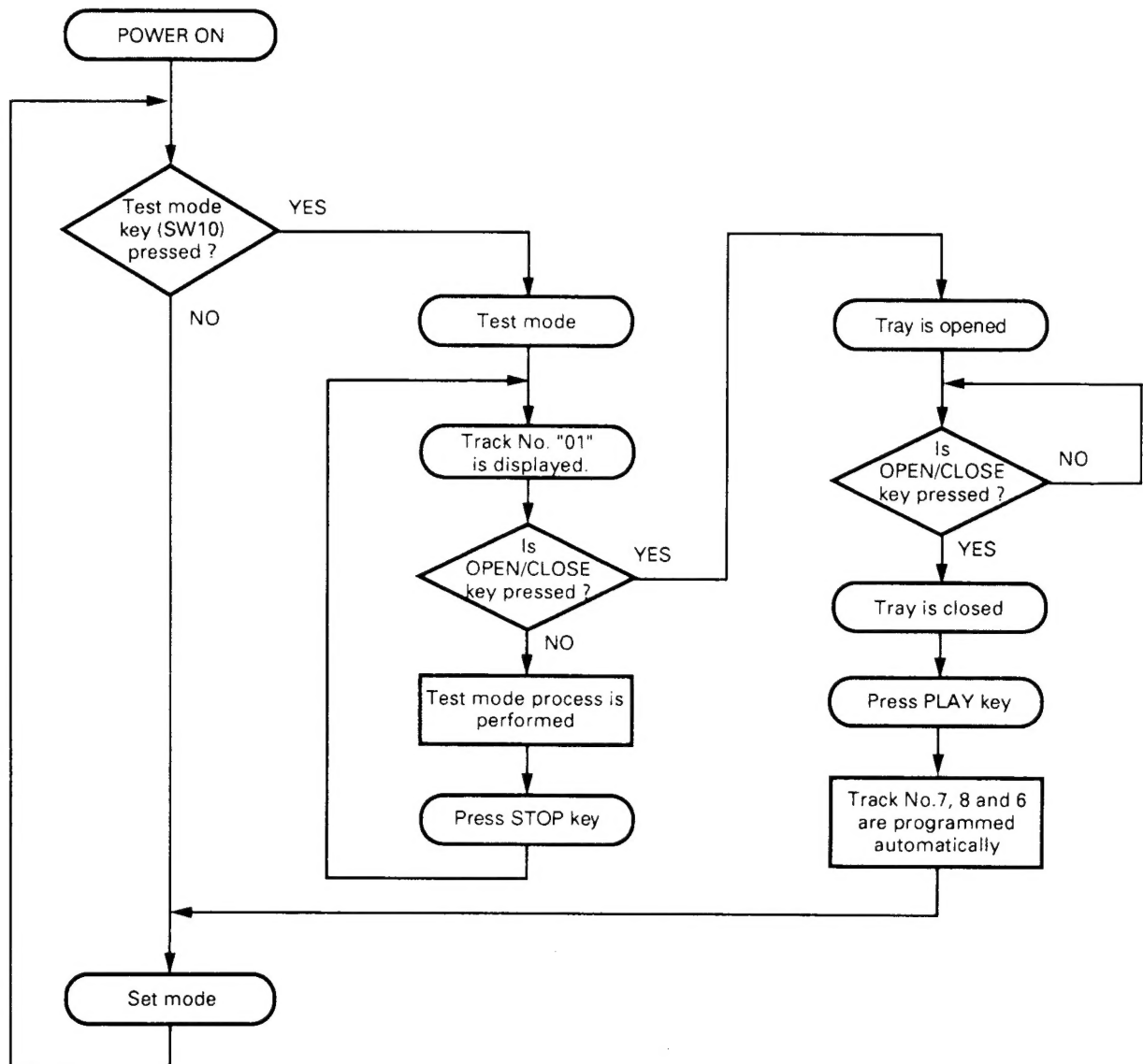
DP-1060/2060

## CIRCUIT DESCRIPTION

### 1. Test mode

#### 1-1. Setting the test mode

This microprocessor built in this unit can be put to TEST MODE (SW10).



## CIRCUIT DESCRIPTION

## 1-2. Key and functions valid in test mode

No.	Input key	Function	Track No. display																																			
1	PLAY	(1) Focusing servo ..... ON (2) Tracking servo ..... ON (3) Feed vervo ..... ON	TRACK NO. 05 ↓ Displayed for a few seconds after completion (1), (2) and (3). ↓ Disc Track No. is displayed.																																			
2	CHECK or Number "0" key	(1) Focusing servo ..... ON (2) Tracking servo ..... OFF (3) Feed servo ..... OFF	TRACK NO. 03																																			
3	STOP	(1) Focusing servo ..... OFF (2) Tracking servo ..... OFF (3) Feed servo ..... OFF	TRACK NO. 01																																			
4	▶▶	In the STOP mode, moves the pickup slightly toward the outer position of disc. When feed servo is ON, sets the track gain to "H".	-																																			
5	◀◀	In the STOP mode, moves the pickup slightly toward the inner position of disc. When feed servo is ON, sets the track gain to "L".	-																																			
6	UP ▶▶	Turns all FL display lamps ON.	TRACK NO. 88																																			
7	DOWN ◀◀	Turns all FL display lamps OFF. "TRACK NO." is lighted.	TRACK NO. 88																																			
8	+10	Playback Track No.1 under High-speed mode (If not open tray, SPACE key function is available.)	-																																			
9	SPACE	Set playback mode to High-speed or Normal.	-																																			
10	P. MODE	Track No. 7, 8, and 6 (High-speed) are programmed and playback from Track No.7. The test mode is canceled.	-																																			
11	OPEN/CLOSE	When the tray is opened then closed. Track No. 7, 8, and 6 are programmed and set is in STOP mode. The test mode is canceled.	TRACK NO. 00																																			
12	Numeric key (1 ~ 9)	Jumps tracks as shown below. <table><tr><td>Key</td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td></tr><tr><td>Number of tracks</td><td>1</td><td>4</td><td>128</td><td>512</td><td>1000</td></tr><tr><td>Direction</td><td colspan="5">Outer</td></tr><tr><td>Key</td><td>6</td><td>7</td><td>8</td><td>9</td><td rowspan="2"></td></tr><tr><td>Number of tracks</td><td>1</td><td>4</td><td>128</td><td>512</td></tr><tr><td>Direction</td><td colspan="5">Inner</td></tr></table>	Key	1	2	3	4	5	Number of tracks	1	4	128	512	1000	Direction	Outer					Key	6	7	8	9		Number of tracks	1	4	128	512	Direction	Inner					-
Key	1	2	3	4	5																																	
Number of tracks	1	4	128	512	1000																																	
Direction	Outer																																					
Key	6	7	8	9																																		
Number of tracks	1	4	128	512																																		
Direction	Inner																																					
13	REPEAT	(1) Tray ..... Opened (2) Laser ..... ON The REPEAT function is canceled when the tray is closed by pressing the tray. "REPEAT" figures is lighted.	TRACK NO. 02																																			

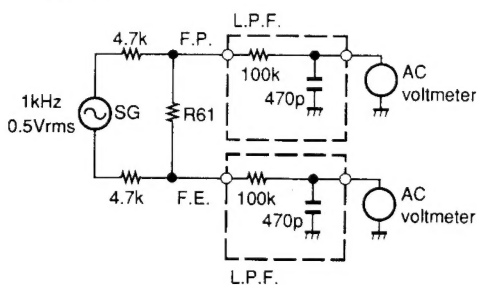
REPEAT mode : Press "REPEAT" key → Press "OPEN/CLOSE" key → Press "REPEAT" key...

## ADJUSTMENT

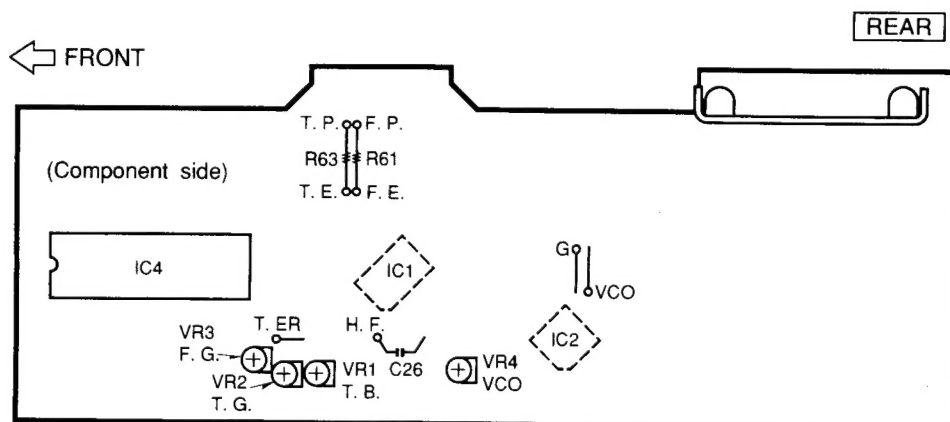
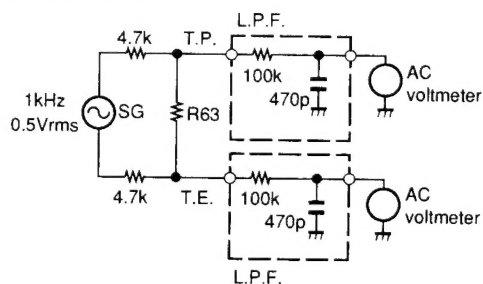
No.	ITEM	INPUT SETTING	OUTPUT SETTING	PLAYER SETTING	ALIGNMENT POINT	ALIGN FOR	FIG.
1	VCO	Test disc Type 4	Connect the frequency counter to "VCO" and GND.	Turn on the SW10 (TEST MODE) to enter the test mode. Press the STOP key. Then, confirm that the display is "01"	VR4	4.05MHz $\pm$ 15kHz	(a)
2	TRACKING ERROR BALANCE	Test disc Type 4	Connect the oscilloscope to "T.ER".	Press the OPEN/CLOSE key to open the tray. Reset to TEST mode. Then, press the CHECK key. Confirm that the display is "03".	VR1	Symmetry between upper and lower patterns, or DC=0 $\pm$ 0.05V	(b)
3	FOCUS GAIN	Test disc Type 4 Apply signal of 1kHz, 0.5Vrms to R61(F.P. - F.E.).	Connect a L.P.F. to R61 (F.P. - F.E.) to which connect two AC voltmeters.	Press the PLAY key. Confirm that the display is "05".	VR3	Two VTVMs should read the same value.	(c)
4	TRACKING GAIN	Test disc Type 4 Apply signal of 1kHz, 0.5Vrms to R63(T.P. - T.E.).	Connect a L.P.F. to R63 (T.P. - T.E.) to which connect two AC voltmeters.	Press the PLAY key. Confirm that the display is "05".	VR2	Two VTVMs should read the same value.	(d)
5	H.F. LEVEL CONFIRMATION	Test disc Type 4	Connect the oscilloscope to "H.F.".	Press the PLAY key. Confirm that the display is "05".	-	1.5Vp-p $\sim$ 1.5Vp-p	(e)

(NOTE) Type 4 disc : SONY YEDS-18 TEST DISC or equivalent.  
Adjustment procedures are in TEST MODE.

(c) Focus gain

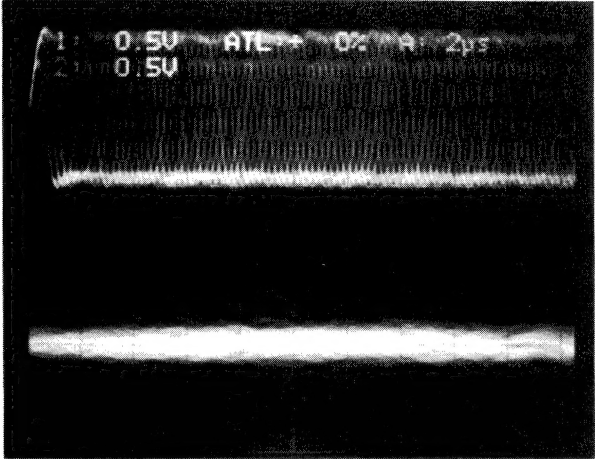


(d) Tracking gain



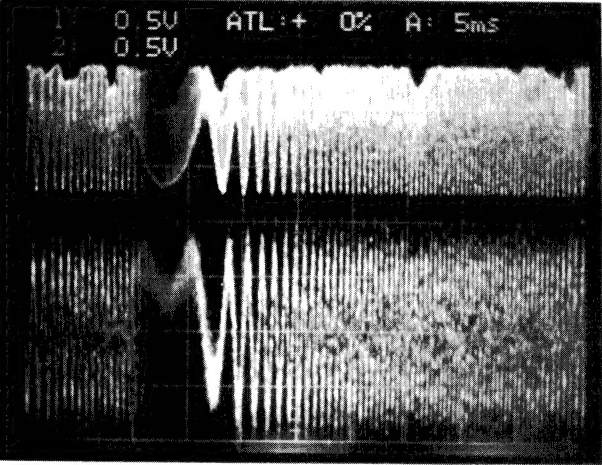
ADJUSTMENT

RF level, TE waveform



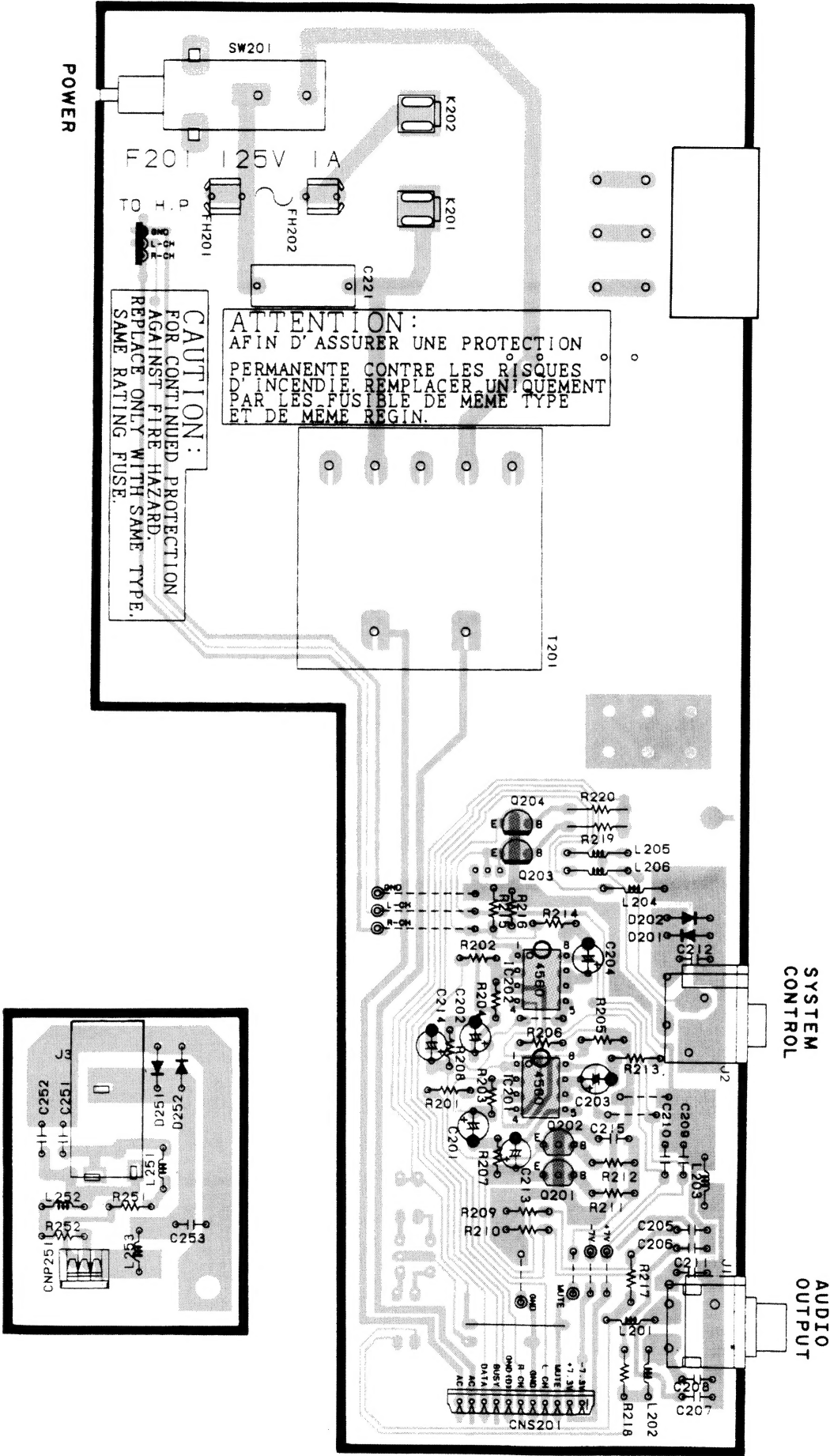
- RF signal and E.Spot signal in test mode (PLAY).
- If the diffraction grating has been adjusted properly, the influence of triggering is observed on the E.Spot waveform of approx. 18µs after RF signal, in the form of a projection.

(b) Tracking error balance



- RF signal and T.Error signal; in test mode (Focusing ON). (Disc type 4)
- Adjust T.Error so that the waveform is symmetrical above and below 0V. (VR 1)

PC BOARD (COMPONENT SIDE VIEW)

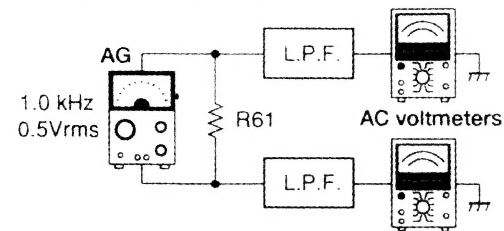


Refer to the schematic diagram for the value of resistors and capacitors.

# PC BOARD (COMPONENT SIDE VIEW)

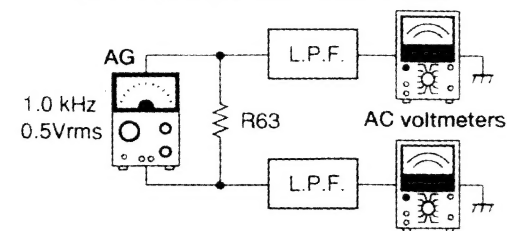
(c) Focus gain :

Two VTVMs should read the same value.



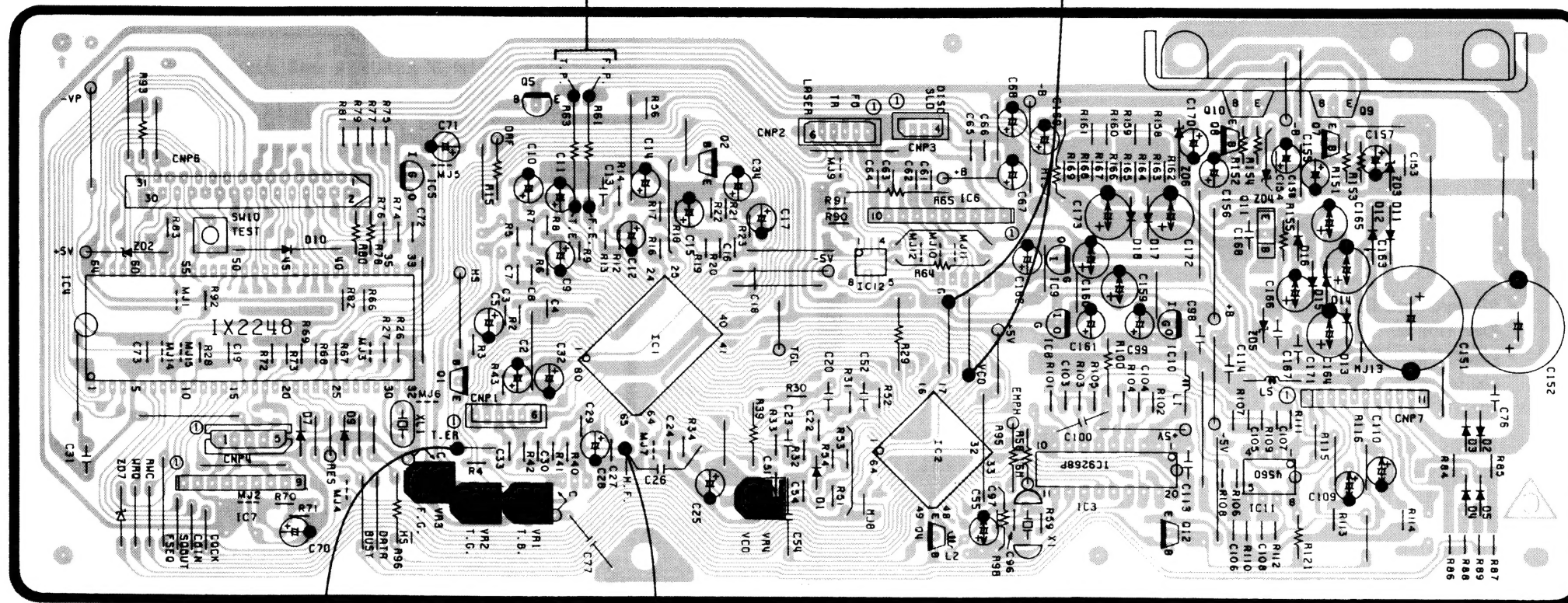
(d) Tracking gain :

Two VTVMs should read the same value.



Frequency counter

(a) VCO : 4.05MHz  $\pm$  15kHz

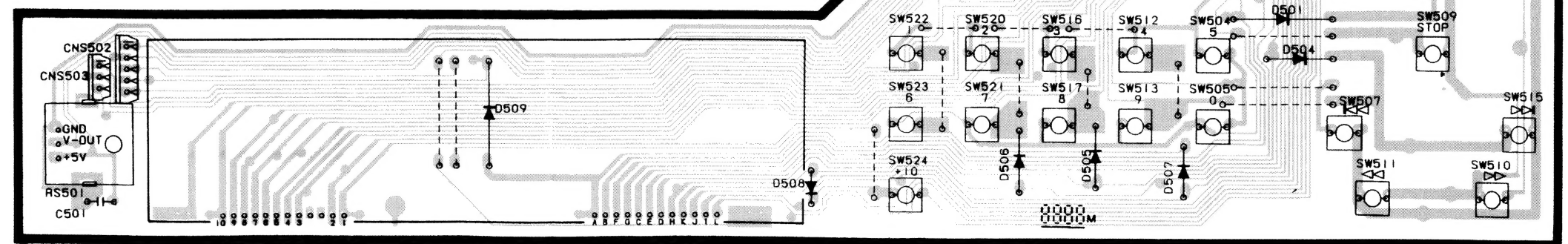
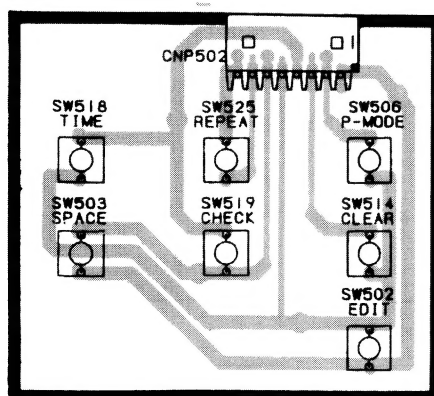


(b) Tracking error balance :  
Symmetry between  
upper and lower  
or DC=0  $\pm$  0.05V

Oscilloscope

(e) H.F Level confirmation :  
1.5Vp-p~2.5Vp-p

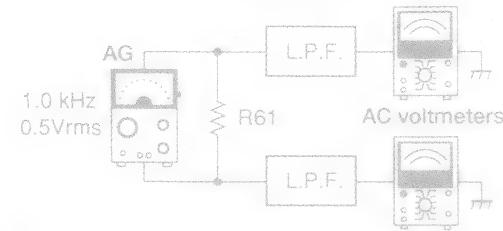
Oscilloscope



# PC BOARD (COMPONENT SIDE VIEW)

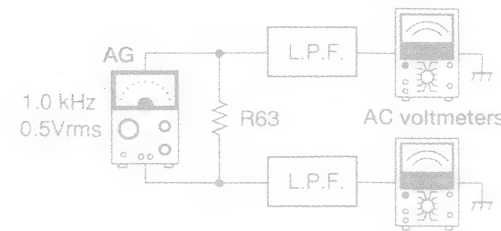
(c) Focus gain :

Two VTVMs should read the same value.



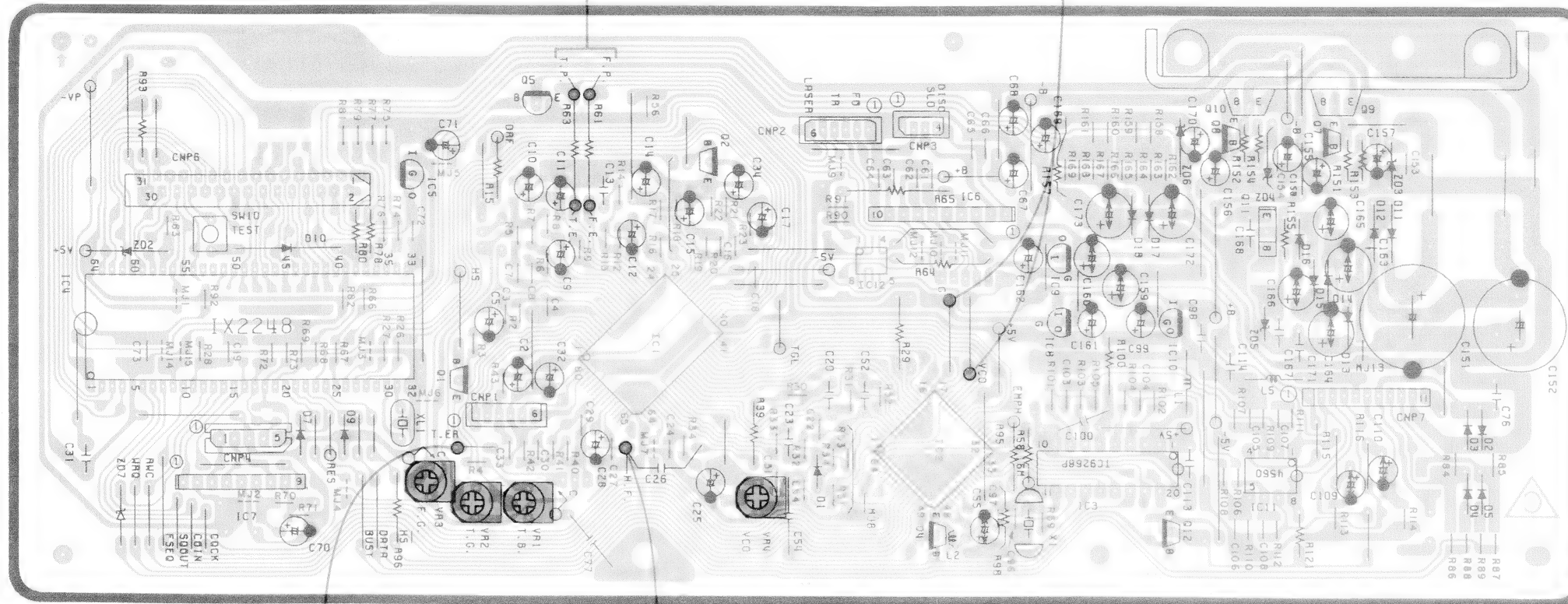
(d) Tracking gain :

Two VTVMs should read the same value.



Frequency counter

(a) VCO : 4.05MHz $\pm$ 15kHz



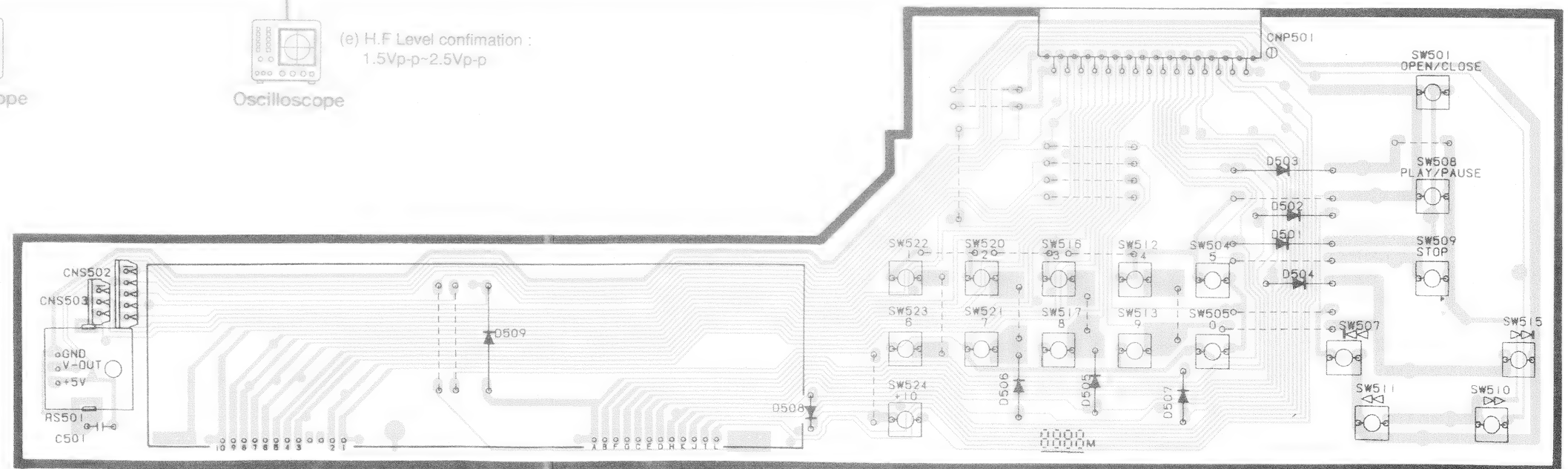
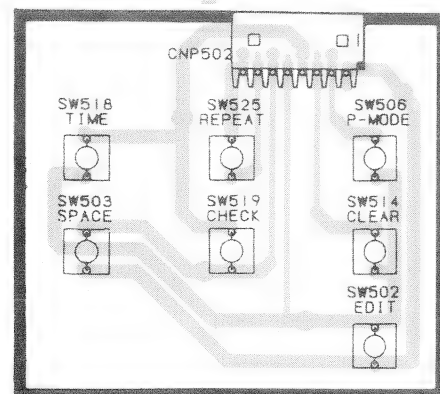
(b) Tracking error balance :

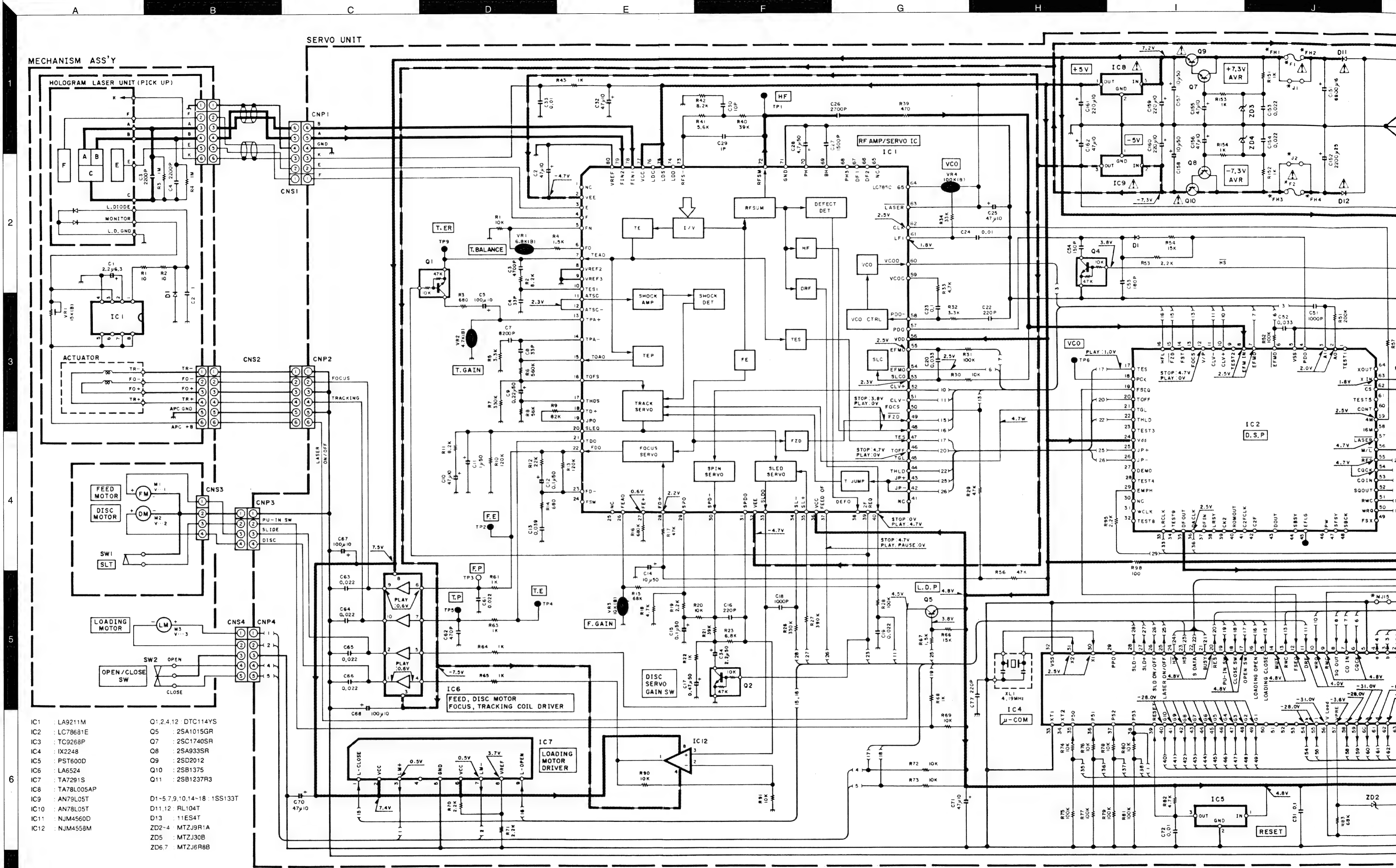
Symmetry between  
upper and lower  
or DC=0 $\pm$ 0.05V

Oscilloscope

(e) H.F Level confirmation :  
1.5Vp-p-2.5Vp-p

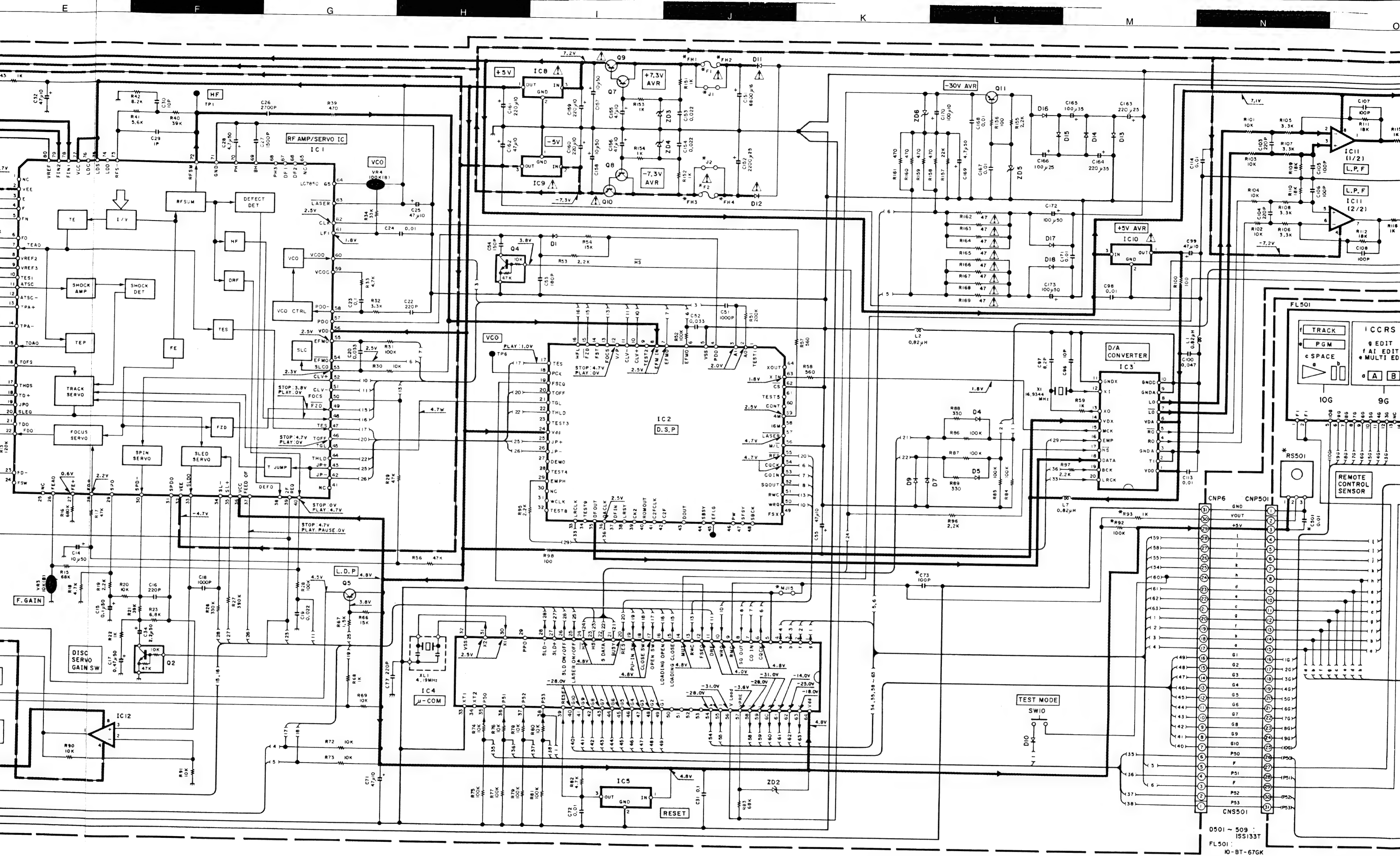
Oscilloscope





CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list).  $\Delta$  indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

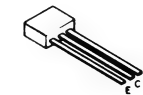
• DC voltages are as measured with a high impedance voltmeter. Values may vary slightly due to individual instruments or/and units.



recommended parts (refer to parts list).  $\Delta$  indicates safety critical components.  
carried out (exposed parts are acceptably insulated from the supply circuit)

• DC voltages are as measured with a high impedance voltmeter. Values may vary slightly due to variations between individual instruments or/and units.

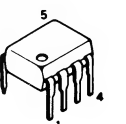
DTC114YS



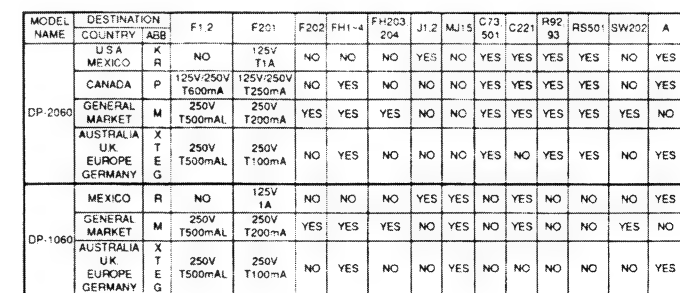
2SB1375  
2SD2012



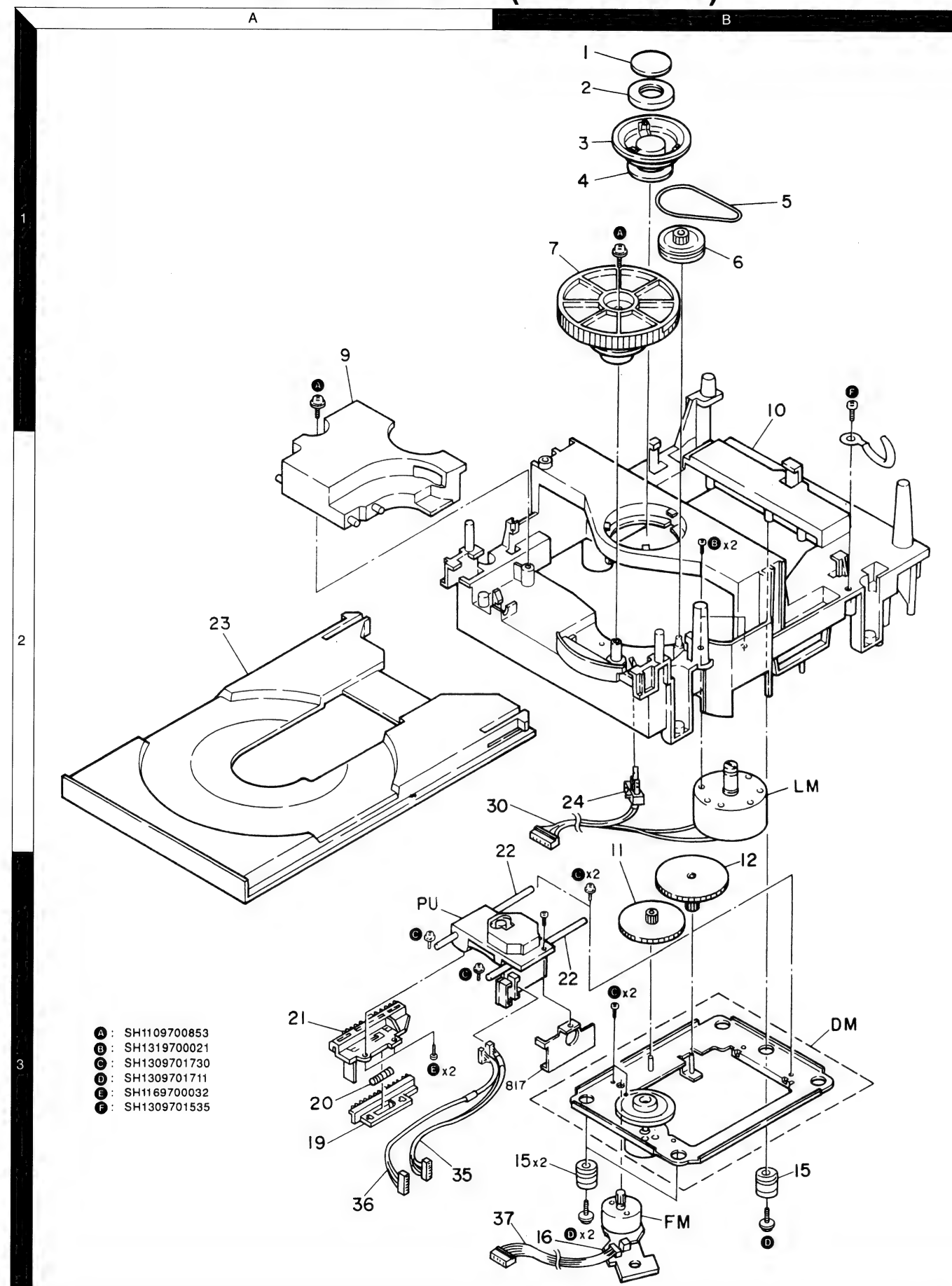
NJM4560D



0501 ~ 509 :  
ISS133T  
FL501 :  
10-BT-67GK

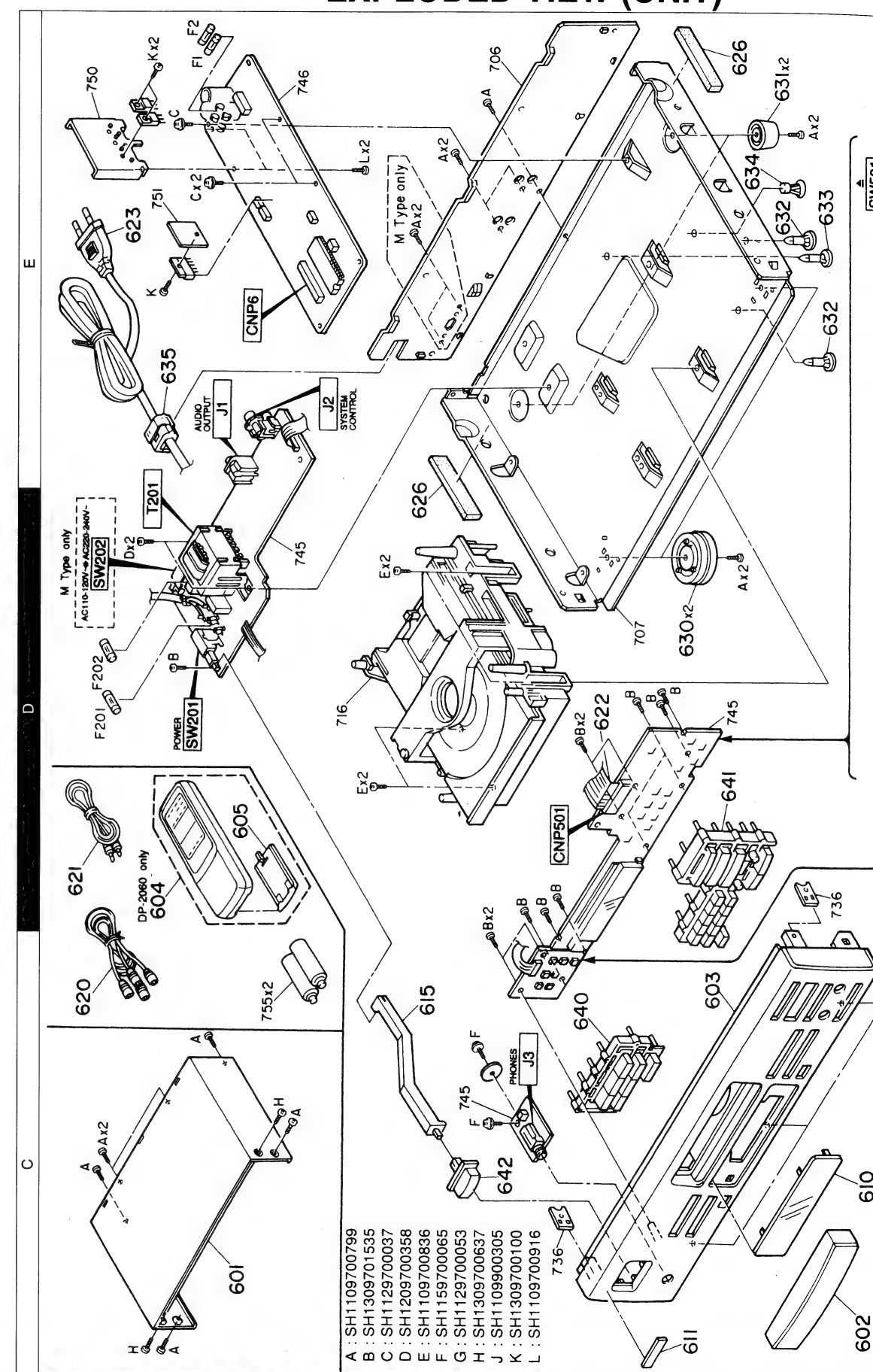


## EXPLODED VIEW (MECHANISM)



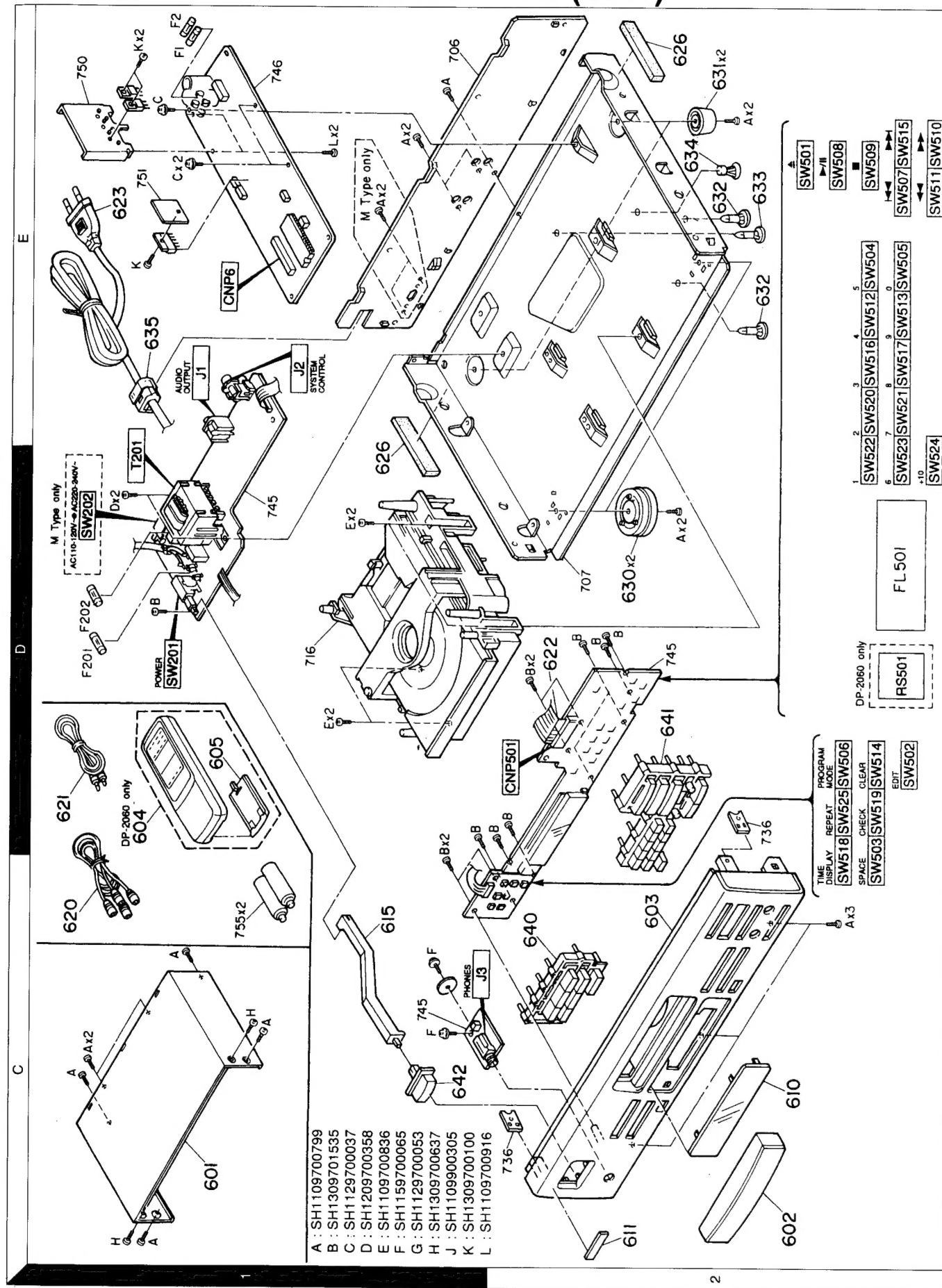
Parts with the exploded numbers larger than 700 are not supplied

### EXPLODED VIEW (UNIT)



Parts with the exploded numbers larger than 70

EXPLODED VIEW (UNIT)



Parts with the exploded numbers larger than 700 are not supplied

PARTS LIST

\* New Parts  
Parts without Parts No. are not supplied.  
Les articles non mentionnés dans le Parts No. ne sont pas fournis.  
Teile ohne Parts No. werden nicht geliefert.

Ref. No. 参照番号	Address 位置	Parts No. 部品番号	Description 部品名 / 規格	Destination 仕向
DP-1060/DP-2060				
601	1C	A01-3205-08	METALLIC CABINET	
602	2C	A29-0388-08	PANEL (TRAY)	
603	2C	A60-0685-08	PANEL (DP-2060)	
604	2C	A60-0686-08	PANEL (DP-1060)	
605	1D	A70-0983-05	REMOTE ASSY (DP-2060)	
610	2C	A09-0170-08	BATTERY COVER (DP-2060)	
611	2C	B10-2077-08	FRONT GLASS	
612	2C	B43-0287-04	KEYBOARD BADGE	
613	2C	B60-1680-08	INSTRUCTION MANUAL (ENGLISH)	
614	2C	B60-1681-08	INSTRUCTION MANUAL (ENG/FRE)	
615	2C	B60-1682-08	INSTRUCTION MANUAL (E/S/C)	
616	2C	B60-1683-08	INSTRUCTION MANUAL (E/F/D/I/S)	
617	2C	B60-1684-08	INSTRUCTION MANUAL (GERMAN)	
618	2C	B60-1685-08	INSTRUCTION MANUAL (SPANISH)	
619	2C	B60-1935-08	INSTRUCTION MANUAL (TIWAN)	
620	1C	D21-1780-08	EXTENSION SHAFT	
621	1C	E30-0505-05	AUDIO CORD	
622	1D	E30-2733-05	CORD WITH PLUG	
623	1E	E35-1046-08	FLAT CABLE	
624	1E	E30-0459-05	AC POWER CORD	
625	1E	E30-0974-05	AC POWER CORD	
626	1E	E30-2750-08	AC POWER CORD	
627	1E	E30-2753-08	AC POWER CORD	
628	1D, 2E	G10-0199-08	CHASSIS CUSHION	
629	1C	H10-5943-08	POLYSTYRENE FOAMED FIXTURE	
630	1C	H10-5943-08	POLYSTYRENE FOAMED FIXTURE	
631	1C	H25-1542-08	PROTECTION BAG	
632	1C	H50-1159-08	ITEM CARTON CASE (DP-2060)	
633	1C	H50-1159-08	ITEM CARTON CASE (DP-2060)	
634	1C	H50-1160-08	ITEM CARTON CASE (DP-2060)	
635	1E	H50-1161-08	ITEM CARTON CASE (DP-2060)	
636	1E	H50-1162-08	ITEM CARTON CASE (DP-2060)	
637	2D	J02-1034-05	FOOT	
638	2E	J02-1120-08	FOOT	
639	2E	J19-3737-08	UNIT HOLDER	
640	2E	J19-3738-08	UNIT HOLDER	
641	2E	J19-3755-08	UNIT HOLDER	
642	1E	J42-0083-05	AC CORD BUSHING	
643	1E	SH1309330057	NYLON BAND	
644	2C	K29-6074-08	KNOB	
645	2C	K29-6075-08	KNOB	
646	1C	K29-6076-08	KNOB (POWER)	
647	1D	L07-1867-08	POWER TRANSFORMER	
648	1D	L07-1868-08	POWER TRANSFORMER	
649	1D	L07-1869-08	POWER TRANSFORMER	
650	1D	L07-1870-08	POWER TRANSFORMER	
651	1D	SH1109700799	SCREW	
652	1D	SH1309701535	SCREW	
653	1D	SH1129700037	SPECIAL SCREW	

\* New Parts  
Parts without Parts No. are not supplied.  
Les articles non mentionnés dans le Parts No. ne sont pas fournis.  
Teile ohne Parts No. werden nicht geliefert.

Ref. No. 参照番号	Address 位置	Parts No. 部品番号	Description 部品名 / 規格	Destination 仕向
ELECTRIC PARTS				
C2		CE04KH1A470K	ELECTRO 47UF 10WV	
C3		CE04KH1A470K	ELECTRO 47UF 10WV	
C4		CE04KH1A470K	ELECTRO 47UF 10WV	
C5		CE04KH1A470K	ELECTRO 47UF 10WV	
C6		CE04KH1A470K	ELECTRO 47UF 10WV	
C7		CE04KH1A470K	ELECTRO 47UF 10WV	
C8		CE04KH1A470K	ELECTRO 47UF 10WV	
C9		CE04KH1A470K	ELECTRO 47UF 10WV	
C10		CE04KH1A470K	ELECTRO 47UF 10WV	
C11		CE04KH1A470K	ELECTRO 47UF 10WV	
C12		CE04KH1A470K	ELECTRO 47UF 10WV	
C13		CE04KH1A470K	ELECTRO 47UF 10WV	
C14		CE04KH1A470K	ELECTRO 47UF 10WV	
C15		CE04KH1A470K	ELECTRO 47UF 10WV	
C16		CE04KH1A470K	ELECTRO 47UF 10WV	
C17		CE04KH1A470K	ELECTRO 47UF 10WV	
C18		CE04KH1A470K	ELECTRO 47UF 10WV	
C19		CE04KH1A470K	ELECTRO 47UF 10WV	
C20		CE04KH1A470K	ELECTRO 47UF 10WV	
C21		CE04KH1A470K	ELECTRO 47UF 10WV	
C22		CE04KH1A470K	ELECTRO 47UF 10WV	
C23		CE04KH1A470K	ELECTRO 47UF 10WV	
C24		CE04KH1A470K	ELECTRO 47UF 10WV	
C25		CE04KH1A470K	ELECTRO 47UF 10WV	
C26		CE04KH1A470K	ELECTRO 47UF 10WV	
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C29		CE04KH1A470K	ELECTRO 47UF 10WV	
C30		CE04KH1A470K	ELECTRO 47UF 10WV	
C31		CE04KH1A470K	ELECTRO 47UF 10WV	
C32		CE04KH1A470K	ELECTRO 47UF 10WV	
C33		CE04KH1A470K	ELECTRO 47UF 10WV	
C34		CE04KH1A470K	ELECTRO 47UF 10WV	
C35		CE04KH1A470K	ELECTRO 47UF 10WV	
C36		CE04KH1A470K	ELECTRO 47UF 10WV	
C37		CE04KH1A470K	ELECTRO 47UF 10WV	
C38		CE04KH1A470K	ELECTRO 47UF 10WV	
C39		CE04KH1A470K	ELECTRO 47UF 10WV	
C40		CE04KH1A470K	ELECTRO 47UF 10WV	
C41		CE04KH1A470K	ELECTRO 47UF 10WV	
C42		CE04KH1A470K	ELECTRO 47UF 10WV	
C43		CE04KH1A470K	ELECTRO 47UF 10WV	
C44		CE04KH1A470K	ELECTRO 47UF 10WV	
C45		CE04KH1A470K	ELECTRO 47UF 10WV	
C46		CE04KH1A470K	ELECTRO 47UF 10WV	
C47		CE04KH1A470K	ELECTRO 47UF 10WV	
C48		CE04KH1A470K	ELECTRO 47UF 10WV	
C49		CE04KH1A470K	ELECTRO 47UF 10WV	
C50		CE04KH1A470K	ELECTRO 47UF 10WV	
C51		CE04KH1A470K	ELECTRO 47UF 10WV	
C52		CE04KH1A470K	ELECTRO 47UF 10WV	
C53		CE04KH1A470K	ELECTRO 47UF 10WV	
C54		CE04KH1A470K	ELECTRO 47UF 10WV	
C55		CE04KH1A470K	ELECTRO 47UF 10WV	
C56		CE04KH1A470K	ELECTRO 47UF 10WV	
C57		CE04KH1A470K	ELECTRO 47UF 10WV	
C58		CE04KH1A470K	ELECTRO 47UF 10WV	
C59		CE04KH1A470K	ELECTRO 47UF 10WV	
C60		CE04KH1A470K	ELECTRO 47UF 10WV	
C61		CE04KH1A470K	ELECTRO 47UF 10WV	
C62		CE04KH1A470K	ELECTRO 47UF 10WV	
C63		CE04KH1A470K	ELECTRO 47UF 10WV	
C64		CE04KH1A470K	ELECTRO 47UF 10WV	
C65		CE04KH1A470K	ELECTRO 47UF 10WV	
C66		CE04KH1A470K	ELECTRO 47UF 10WV	
C67		CE04KH1A470K	ELECTRO 47UF 10WV	
C68		CE04KH1A470K	ELECTRO 47UF 10WV	
C69		CE04KH1A470K	ELECTRO 47UF 10WV	
C70		CE04KH1A470K	ELECTRO 47UF 10WV	
C71		CE04KH1A470K	ELECTRO 47UF 10WV	
C72		CE04KH1A470K	ELECTRO 47UF 10WV	
C73		CE04KH1A470K	ELECTRO 47UF 10WV	
C74		CE04KH1A470K	ELECTRO 47UF 10WV	
C75		CE04KH1A470K	ELECTRO 47UF 10WV	
C76		CE04KH1A470K	ELECTRO 47UF 10WV	
C77		CE04KH1A470K	ELECTRO 47UF 10WV	

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Ref. No. 参照番号	Address 位置	Parts No. 部品番号	Description 部品名 / 規格	Re- marks 備考
DP-1060/DP-2060				
601	1C	A01-3205-08	METALLIC CABINET	
602	2C	A29-0388-08	PANEL (TRAY)	
603	2C	A60-0685-08	PANEL (DP-2060)	
604	1D	A60-0686-08	PANEL (DP-1060)	
605	1D	A70-0983-05	REMOCON ASSY (DP-2060)	
610	2C	A09-0170-08	BATTERY COVER (DP-2060)	
611	2C	B10-2077-08	FRONT GLASS	
-	-	B43-0287-04	KENWOOD BADGE	
-	-	B60-1680-08	INSTRUCTION MANUAL (ENGLISH)	
-	-	B60-1681-08	INSTRUCTION MANUAL (ENG/FRE)	
-	-	B60-1682-08	INSTRUCTION MANUAL (E/S/C)	
-	-	B60-1683-08	INSTRUCTION MANUAL (E/F/D/I/S)	
-	-	B60-1684-08	INSTRUCTION MANUAL (SPANISH)	
-	-	B60-1685-08	INSTRUCTION MANUAL (GERMAN)	
-	-	B60-1935-08	INSTRUCTION MANUAL (TIMAN)	
615	1C	D21-1780-08	EXTENSION SHAFT	
620	1C	E30-0505-05	AUDIO CORD	
621	1D	E30-2733-05	CORD WITH PLUG	
622	2D	E35-1046-08	FLAT CABLE	
623	1E	E30-0459-05	AC POWER CORD	
623	1E	E30-0974-05	AC POWER CORD	
623	1E	E30-2750-08	AC POWER CORD	
623	1E	E30-2753-08	AC POWER CORD	
626	1D, 2E	G10-0199-08	CHASSIS CUSHION	
-	-	H10-5962-08	POLYSTYRENE FOAMED FIXTURE	
-	-	H10-5963-08	PROTECTION BAG	
-	-	H25-1542-08	ITEM CARTON CASE (DP-2060)	
-	-	H50-1159-08	ITEM CARTON CASE (DP-2060)	
-	-	H50-1159-08	ITEM CARTON CASE (DP-2060)	
-	-	H50-1160-08	ITEM CARTON CASE (DP-2060)	
-	-	H50-1161-08	ITEM CARTON CASE (DP-1060)	
-	-	H50-1162-08	ITEM CARTON CASE (DP-1060)	
630	2D	J02-1034-05	FOOT	
631	2E	J02-1120-08	UNIT HOLDER	
632	2E	J19-3737-08	UNIT HOLDER	
633	2E	J19-3738-08	UNIT HOLDER	
634	2E	J19-3739-08	UNIT HOLDER	
635	1E	J42-0083-05	AC CORD BUSHING	
-	-	SH1309330057	NYLON BAND	
640	2C	K29-6074-08	KNOB	
641	2D	K29-6075-08	KNOB	
642	1C	K29-6076-08	KNOB (POWER)	
T201	1D	L07-1867-08	POWER TRANSFORMER	
T201	1D	L07-1868-08	POWER TRANSFORMER	
T201	1D	L07-1869-08	POWER TRANSFORMER	
T201	1D	L07-1870-08	POWER TRANSFORMER	
A	-	SH1109700799	SCREW	
B	-	SH1309701535	SCREW	
C	-	SH1129700037	SPECIAL SCREW	

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C96		CC41DSL1H100J	CYLND CHIP C 10PF	
C97		CC41DSL1H9R2D	CYLND CHIP C 8-2PF	
C98		CC45FB1H103Z	CERAMIC 0.010UF Z	
C99		CE04KW1A470M	ELECTR0 47UF 10WV	
C100		CK450B1H473Z	CERAMIC 0.047UF Z	
C103, 104		CK410B1H221K	CYLND CHIP C 220PF	
C105-108		CK410B1H210K	CYLND CHIP C 100PF	
C109, 110		CE04KW1H100M	ELECTR0 10UF 50WV	
C113, 114		CK45FB1H103Z	CERAMIC 0.010UF Z	
C151		CE04KW1C682M	ELECTR0 6800UF 16WV	
C152		CE04KW1E222Z	ELECTR0 2200UF 25WV	
C153, 154		CK410B1E223Z	CYLND CHIP C 0.022UF Z	
C155, 156		CE04KW1A470M	ELECTR0 47UF 10WV	
C157, 158		CE04KW1H100M	ELECTR0 10UF 50WV	
C159-161		CE04KW1A221M	ELECTR0 220UF 10WV	
C162		CE04KW1A470M	ELECTR0 47UF 10WV	
C163		CE04KW1E221M	ELECTR0 220UF 25WV	
C164		CE04KW1V221M	ELECTR0 220UF 35WV	
C165		CE04KW1H101M	ELECTR0 100UF 50WV	
C166		CE04KW1E101M	ELECTR0 100UF 25WV	
C167, 168		CK45FB1H103Z	CERAMIC 0.010UF Z	
C169		CE04KW1A470M	ELECTR0 47UF 10WV	
C170		CE04KW1A470M	ELECTR0 47UF 10WV	
C171		CK45FB1H103Z	CERAMIC 0.010UF Z	
C172C, 173	C	CE04KW1H101M	ELECTR0 100UF 50WV	
C201, 202		CE04KW1H100M	ELECTR0 10UF 50WV	
C203, 204		CE04KW1A101M	ELECTR0 100UF 10WV	
C205, 206		CK45FSL1H471J	CERAMIC 470PF J	
C207, 208		CK45FSL1H221K	CERAMIC 220PF K	
C209, 210		CK45FB1H103Z	CERAMIC 0.010UF Z	
C211, 212		CK45FB1H473Z	CERAMIC 0.047UF Z	
C213, 214		CE04KW1H100M	ELECTR0 10UF 50WV	
C215		CK45FB1H103Z	CERAMIC 0.010UF Z	
C221		SH1105000386	CERAMIC 0.047UF M	
C251, 252		CK45FB1H471K	CERAMIC 470PF K	
C253		CK45FB1H473Z	CERAMIC 0.047UF Z	
C501		CK45FB1H103Z	CERAMIC 0.010UF Z	
CNP6	1E	E40-3871-05	FLAT CABLE CONNECTOR	
CNP501	2D	E40-4211-05	FLAT CABLE CONNECTOR	
J1	1E	E63-0112-08	PHONE JACK (AUDIO OUTPUT)	
J2	1E	E11-0188-05	MINIATURE PHONE JACK (SYS/COM)	
J3	1C	E11-0258-08	PHONE JACK (PHONES)	
F1, 2	1E	F05-5016-05	FUSE (DP-2060)	
F201, 2	1E	F05-0061-08	FUSE	
F201	1D	F05-1014-05	FUSE	
F201	1D	F05-1026-05	FUSE	
F201	1D	F05-0051-08	FUSE	
F202	1D	F05-2015-05	FUSE	
FH201, 202	1E	J13-0075-05	FUSE HOLDER	
L1, 2		L40-8281-17	CHOKE COIL	
L5		L40-8281-17	CHOKE COIL	
L7		L40-8281-17	CHOKE COIL	
L201-206		L40-8281-17	CHOKE COIL	

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D		SH1209700358	SCREW	
E		SH1109700836	SPECIAL SCREW	
F		SH1159700065	SPECIAL SCREW	
G		SH1129700053	R-ANT SCREW	
H		SH1309700637	WASHER	
J		SH1109900305	SCREW	
K		SH1309700100	SCREW	
L		SH1109700916	SCREW	
ELECTRIC PARTS				
C2		CE04KW1A470M	ELECTR0 47UF 10WV	
C3		CK410B1C472K	CYLND CHIP C 4700PF	
C4		CC41DSL1H330J	CYLND CHIP C 33PF	
C5		CE04KW1A101M	ELECTR0 100UF 10WV	
C7		CK410B1C822M	CYLND CHIP C 8200PF	
C8		CC41DSL1H330J	CYLND CHIP C 33PF	
C9		CE04KW1H222M	ELECTR0 0.22UF 50WV	
C10		CE04KW1H101M	ELECTR0 10UF 50WV	
C11		CE04KW1H101M	ELECTR0 1.0UF 50WV	
C12		CE04KW1H011M	ELECTR0 0.1UF 50WV	
C13		CK45FB1H393K	CERAMIC 0.039UF	
C14		CE04KW1H100M	ELECTR0 10UF 50WV	
C15		CE04KW1H011M	ELECTR0 0.1UF 50WV	
C16		CK410B1H221K	CYLND CHIP C 220PF	
C17		CE04KW1H847M	ELECTR0 0.47UF 50WV	
C18		CK410B1H102K	CYLND CHIP C 1000PF	
C19		CK410B1E223Z	CYLND CHIP C 0.022UF	
C20		CK45FB1H333K	CERAMIC 0.033UF	
C22		CK410B1H221K	CYLND CHIP C 220PF	
C23		CK45FB1H104K	CERAMIC 0.10UF	
C24		CK410B1C103K	CYLND CHIP C 0.010UF	
C25		CE04KW1A470M	ELECTR0 47UF 10WV	
C26		CK41FB1H272M	CYLND CHIP C 2700PF	
C27		CK410B1C152K	CYLND CHIP C 1500PF	
C28		CE04KW1H477M	ELECTR0 4.7UF 50WV	
C29		CC41DSL1H010C	CYLND CHIP C 1.0PF	
C30		CC41DSL1H100J	CYLND CHIP C 10PF	
C31		CQ92FM1H104J	MYLAR 0.10UF	
C32		CE04KW1A470M	ELECTR0 47UF 10WV	
C33		CK410B1C103K	CYLND CHIP C 0.010UF	
C34		CE04KW1H282M	ELECTR0 2.2UF 50WV	
C35		CK410B1H12K	CYLND CHIP C 1000PF	
C35		CK45FB1H181K	CERAMIC 0.035UF	
C35		CK45FB1H181K	CERAMIC 180PF	
C34		CK41FB1H151K	CYLND CHIP C 150PF	
C55		CE04KW1A470M	ELECTR0 47UF 10WV	
C61		CK410B1E223Z	CYLND CHIP C 0.022UF	
C62	-66	CK410B1H471K	CYLND CHIP C 470PF	
C67, 68		CK410B1E223Z	CYLND CHIP C 0.022UF	
C70, 71		CE04KW1A470M	ELECTR0 47UF 10WV	
C72		CK410B1C103K	CYLND CHIP C 0.010UF	
C73		CK410B1H101K	CYLND CHIP C 100PF	
C76		CK45FB1H103Z	CERAMIC 0.010UF	
C77		CK41FB1H221K	CYLND CHIP C 220PF	

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L251-253		L40-8281-17	CHOKE COIL	
XL1		L77-2132-08	CRYSTAL RESONATOR(16.9344MHz)	
		L78-0267-05	RESONATOR(4.19MHz)	
R1		RD41D82B103J	CARBON 10K	
R2		RD41D82B822J	CARBON 8.2K	
R3		RD41D82B681J	CARBON 6.8K	
R4		RD41D82B152J	CARBON 1.5K	
R5		RD41D82B332J	CARBON 3.3K	
R6		RD41D82B564J	CARBON 560K	
R7		RD41D82B334J	CARBON 330K	
R8		RD41D82B563J	CARBON 56K	
R9		RD41D82B823J	CARBON 82K	
R10		RD41D82B124J	CARBON 120K	
R11		RD41D82B822J	CARBON 8.2K	
R12		RD41D82B223J	CARBON 22K	
R13		RD41D82B124J	CARBON 120K	
R14		RD41D82B681J	CARBON 680K	
R16		RD41D82B684J	CARBON 680K	
R17		RD41D82B473J	CARBON 47K	
R18		RD41D82B472J	CARBON 4.7K	
R19		RD41D82B223J	CARBON 2.2K	
R20		RD41D82B103J	CARBON 10K	
R21		RD41D82B393J	CARBON 39K	
R22		RD41D82B102J	CARBON 1K	
R23		RD41D82B682J	CARBON 6.8K	
R26		RD41D82B334J	CARBON 330K	
R27		RD41D82B394J	CARBON 390K	
R28		RD41D82B104J	CARBON 100K	
R30		RD41D82B103J	CARBON 10K	
R31		RD41D82B104J	CARBON 100K	
R32		RD41D82B332J	CARBON 3.3K	
R33		RD41D82B563J	CARBON 56K	
R34		RD41D82B563J	CARBON 56K	
R40		RD41D82B393J	CARBON 39K	
R41		RD41D82B562J	CARBON 5.6K	
R42		RD41D82B562J	CARBON 5.6K	
R43		RD41D82B102J	CARBON 1K	
R51		RD41D82B204J	CARBON 200K	
R52		RD41D82B104J	CARBON 100K	
R53		RD41D82B223J	CARBON 2.2K	
R54		RD41D82B153J	CARBON 15K	
R56		RD41D82B473J	CARBON 47K	
R57		RD41D82B561J	CARBON 560	
R59		RD41D82B102J	CARBON 1K	
R66		RD41D82B153J	CARBON 15K	
R67		RD41D82B152J	CARBON 1.5K	
R68		RD41D82B103J	CARBON 10K	
R69		RD41D82B103J	CARBON 10K	
R70, 71		RD41D82B222J	CARBON 2.2K	
R72	-74	RD41D82B103J	CARBON 10K	
R75		RD41D82B104J	CARBON 100K	
R77		RD41D82B104J	CARBON 100K	
R79		RD41D82B104J	CARBON 100K	
R81		RD41D82B104J	CARBON 100K	

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## DP-1060/2060

## PARTS LIST

## DP-1060/2060

## PARTS LIST

SW511[SW510]

SW524

SW502

PARTS LIST

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Q11			2SB1237R3	TRANSISTOR		
Q12			2TC114YS	TRANSISTOR		
Q201-204			2SC2879B	TRANSISTOR		
RS501	2D		402-1174-05	ELECTRIC MODULE (DP-2060)		
MECHANISM PARTS						
1	1B		150-1067-08	MAGNET SUPPORT		
2	1B		SH1313730001	MAGNET		
3	1B	*	SH1102140396	MAGNET HOLDER		
4	1B		G13-0402-08	MAGNET CUSHION		
5	1B		D16-0362-08	DRIVE BELT		
6	1B		D15-0364-08	DRIVE PULLEY		
7	1B		SH102810098	PISTON GEAR		
10	1B		A11-1021-08	LOADING CHASSIS		
11	2B		SH1302810228	GEAR (MIDDLE)		
12	2B		SH1302810229	GEAR (DRIVE)		
15	3B		SH1303260448	CUSHION		
16	3B	*	SH1305301248	PUSH AMATCH(SLT)		
19	3A		SH1302810232	GEAR (RACK MOVE)		
20	3A		SH125280244	SPRING (RACK)		
21	3A		SH1302810231	GEAR (RACK FIX)		
22	2B, 3B		SH1302900394	SHAFT (GUIDE)		
23	2A		SH1102140395	DISC TRAY		
24	2A		S74-0027-08	LEAF SW (OPEN/CLOSE)		
30	2B	*	E35-1053-08	WIRING HARNESS		
35	3A	*	E35-1050-08	WIRING HARNESS		
36	3A	*	E35-1051-08	WIRING HARNESS		
37	3B	*	E35-1052-08	WIRING HARNESS		
A			SH1109700853	SPECIAL SCREW		
B			SH1318700021	SPECIAL SCREW		
C			SH1309701730	SCREW		
D			SH1309701711	SCREW+WASHER 3R2W13-1S		
E			SH1189700032	SCREW		
F			SH1309701535	SCREW		
DM	3B	*	SH1306300457	DISC MOTOR		
FM	3B		SH1256300127	FEED MOTOR		
LM	2B		SH1106300200	MOTOR		
PU	3A		T25-0032-08	CD PICKUP ASSY		

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R82			R041DB28472J	CARBON		
R83			R041DB28683J	4.7K	J	1/8W
R84 -87			R041DB28104J	68K	J	1/8W
R88 ,89			R041DB28331J	100K	J	1/8W
R92			R041DB28104J	330	J	1/4W
			R041DB28104J	100K	J	1/8W
R97			R041DB28222J	CARBON		
R101-104			R041DB28103J	2-2K	J	1/8W
R105-108			R041DB28332J	10K	J	1/8W
R109-112			R041DB28183J	3.3K	J	1/8W
R113,114			R041DB28104J	18K	J	1/8W
			R041DB28104J	100K	J	1/8W
R156			R041DB28101J	CARBON		
R158-161			R041DB28471J	100	J	1/8W
R162-169			R041DB28470J	470	J	1/8W
VR1			R12-2048-08	CARBON		
VR2			R12-1619-05	TRIMMING POT(6.8K)<T.BALANCE>		
			R12-1619-05	TRIMMING POT(4.7K)<T.GAIN>		
VR3			R12-3685-05	TRIMMING POT(10K) <F.GAIN>		
VR4			R12-3651-05	TRIMMING POT(100K)<VCO>		
SW10			SH1305301218	SWITCH (TEST MODE)		
SW201			S68-0036-08	SWITCH (POWER)		
SW202			S62-0001-05	SWITCH (VOLTAGE)		
SW501-525			SH1305301218	SWITCH (EJECT etc)		
D1 -5			1S5133T	DIODE		
D7			1S5133T	DIODE		
D9 ,10			1S5133T	DIODE		
D11 ,12			RL104T	DIODE		
D13		*	11ES4T	DIODE		
D14 -18			1S5133T	DIODE		
D201,202	1D		1S5133T	DIODE		
D251,252			1S5133T	DIODE		
D501-509			1S5133T	DIODE		
FL501	2D		10-BT-67GK	INDUCTOR TUBE		
ZD2 -4		*	MTZJ9R1A	ZENER DIODE		
ZD5		*	MTZJ30B	ZENER DIODE		
ZD6 ,7		*	MTZJ6R8B	ZENER DIODE		
IC1			LA9211M	IC		
IC2			LC78481E	IC		
IC3			TC9268P	IC		
IC4			JPD75216ACW-W75	IC		
IC5			PST600D	IC		
IC6			LA6524	IC		
IC7			TA7291S	IC(BRIDGE DRIVER)		
IC8			TA76105AP	IC(VOLTAGE REGULATOR / +5V)		
IC9			AN78L05T	IC		
IC10			AN78L05T	IC		
IC11			NJM4560D	IC(OP AMP X2)		
IC12			NJM4558M	IC(OP AMP X2)		
IC201,202			NJM4560D	IC(OP AMP X2)		
Q1 ,2			DTC114YS	TRANSISTOR		
Q4			DTC114YS	TRANSISTOR		
Q5			2SA1015GR	TRANSISTOR		
Q7			2SC1740SR	TRANSISTOR		
Q8			2SA933SR	TRANSISTOR		
Q9			2S02012	TRANSISTOR		
Q10			2SB1375	TRANSISTOR		

△ indicates safety critical components.

LS:Scandinavia  
Y:PK(Far East, Hawaii)  
Y:AAFE(S/Europe)

K:USA  
T:England  
X:Australia

P:Canada  
E:Europe  
M:Other Areas

# DP-1060/2060

## SPECIFICATIONS

### [Format]

System ..... Compact disc digital audio system  
Laser ..... Semiconductor laser  
Number of channels ..... 2 channels  
playing rotation ..... 200 rpm ~ 500 rpm (CLV)

### [D/A Convertors]

D/A Conversion ..... 1 Bit  
Oversampling ..... 8 fs (352.8 kHz)

### [Audio]

Frequency response ..... 8 Hz ~ 20 kHz  $\pm$  1.0 dB  
Signal to noise ratio ..... More than 94 dB  
Dynamic range ..... More than 92 dB  
Total harmonic distortion ..... Less than 0.005%

Channel separation ..... More than 83 dB  
Wow & flutter ..... Unmeasurable limit  
Output level/impedance  
Fixed ..... 2.0V/3.3k $\Omega$   
Headphone output ..... 6mW (32 $\Omega$ )

### [General]

Power consumption ..... 12W  
Dimensions ..... W: 440 mm (17 - 5/16")  
H: 106 mm (4 - 3/16")  
D: 310 mm (12 - 3/16")  
Weight (Net) ..... 3.8 kg (8.4 lb)

### Note:

KENWOOD follows a policy of continuous advancements in development. For this reason specifications may be changed without notice.

### Note:

Component and circuitry are subject to modification to insure best operation under differing local conditions. This manual is based on Europe (E) standard, and provides information on regional circuit modification through use of alternate schematic diagrams, and information on regional component variations through use of parts list.

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